

MATHEMATICS

Pupil year: U4 (Yr 9)

Head of Department: Dr P Merisi

Subject Topic / Skills

Autumn Term

Number

Laws of indices and standard form
Fractions, percentages and decimals
Percentage increase and decrease

Algebra

Solution of linear and simultaneous equations

Shape & Space

Linear graphs
Simultaneous equations: graphical methods

Data Handling

Probability — single events, two events,
probability trees

Spring Term

Algebra

Linear and quadratic sequences

Shape & Space

Area, perimeter and volume: formulae and applications.
Constructions and loci

Data Handling

Mean, median and mode using frequency tables.
Equation of line of best fit on scatter diagrams

Summer Term

Number

Estimation and approximation

Algebra

Expansion of brackets. Using formulae
Linear and quadratic factorisation
Solution of simple quadratic equations

Shape & Space

Trigonometry. Transformations

Data Handling

Cumulative frequency

Throughout the Year

Use of non-calculator based methods. Mental arithmetic skills and practice. Oral discussion – Aural questions – Practical tasks. Investigational work with more open-ended problems